BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work :- Detailed Estimate for:-Annual Maintenance and repairs of street lights in ward no 06 Package Y - 06 of Yelahanka Zone.

Budget Head .....

Division No..... Estimate No. ..... For Rs.= **7185000.00**

Sl No	SR Page No	Description of Work	Unit	Qty	Rate Per Year Rs. Ps.	Amount
1	AR Vide No SE (Ele) PR/676/2021-22, Dated: 7/12/2021	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for 36/40 W fluorescent tube light street lighting systems.	Each	79	685.45	54150.55
2	AR Vide No SE (Ele) PR/676/2021-22, Dated: 7/12/2021	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for 125 W HPMV light Park lighting systems.	Each	45	756.29	34033.05
3	AR Vide No SE (Ele) PR/676/2021-22, Dated: 7/12/2021	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for 250W HPSV street light lighting systems.	Each	4805	1019.41	4898265.05
4	AR Vide No SE (Ele) PR/676/2021-22, Dated: 7/12/2021	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents 400 watts HPSV street light/High Mast lighting systems.	Each	120	1118.08	134169.60

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5	AR Vide No SE (Ele) PR/676/2021-22, Dated: 7/12/2021 10	Operation and Maintenance of LED Street lighting system including replacement of damaged/failed/fused out compnents like LED drivers MCPCB surge protective device switches, Wires Holders, Staters observing weather proofing technic confirming to IP 65 standards and switching ON/OFF of Street lights at specified timing and pole numbering. Preparing ward wise Street wise Street light data bank furnishing maintenance reports every day etc.., complete so as to ansure efficient burning of Street lights detailed in Tender documents for 24 watt LED park lighting systems.	Each	32	880.01	28160.32
6	AR Vide No SE (Ele) PR/676/2021-22, Dated: 7/12/2021 11	Operation and Maintenance of LED Street lighting system including replacement of damaged/failed/fused out compnents like LED drivers MCPCB surge protective device switches, Wires Holders, Staters observing weather proofing technic confirming to IP 65 standards and switching ON/OFF of Street lights at specified timing and pole numbering. Preparing ward wise Street wise Street light data bank furnishing maintenance reports every day etc.., complete so as to ansure efficient burning of Street lights detailed in Tender documents for 65 watt LED street light lighting systems.	Each	727	1147.43	834181.61
7	AR Vide No SE (Ele) PR/676/2021-22, Dated: 7/12/2021	Operation and Maintenance of LED Street lighting system including replacement of damaged/failed/fused out compnents like LED drivers MCPCB surge protective device switches, Wires Holders, Staters observing weather proofing technic confirming to IP 65 standards and switching ON/OFF of Street lights at specified timing and pole numbering. Preparing ward wise Street wise Street light data bank furnishing maintenance reports every day etc.., complete so as to ansure efficient burning of Street lights detailed in Tender documents for 90 watt LED street light lighting systems.	Each	19	1377.66	26175.54
8	AR Vide No SE (Ele) PR/676/2021-22, Dated: 7/12/2021 13	Operation and Maintenance of LED Street lighting system including replacement of damaged/failed/fused out compnents like LED drivers MCPCB surge protective device switches, Wires Holders, Staters observing weather proofing technic confirming to IP 65 standards and switching ON/OFF of Street lights at specified timing and pole numbering. Preparing ward wise Street wise Street light data bank furnishing maintenance reports every day etc.., complete so as to ansure efficient burning of Street lights detailed in Tender documents for 110/120 watt LED streetlight lighting system	Each	1	1575.5	1575.50
9	AR Vide No SE (Ele) PR/676/2021-22, Dated: 7/12/2021 14	Operation and Maintenance of LED Street lighting system including replacement of damaged/failed/fused out compnents like LED drivers MCPCB surge protective device switches, Wires Holders, Staters observing weather proofing technic confirming to IP 65 standards and switching ON/OFF of Street lights at specified timing and pole numbering. Preparing ward wise Street wise Street light data bank furnishing maintenance reports every day etc.., complete so as to ansure efficient burning of Street lights detailed in Tender documents for 150 watt LED street light /High mast lighting system	Each	1	1871.51	1871.51

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10	72/13.17.1	Painting of existing Street lighting pole after scraping the oid paint and painted with suitable colour enamel/silver paint including copingflooting of the polec) Up to 5 Mtrs Street light pole	Nos	45	550.00	24750.00
11	72/13.17.3	Painting of existing Street lighting pole after scraping the oid paint and painted with suitable colour enamel/silver paint including copingflooting of the polec) 8 Mtr and above Street light pole	Nos	326	770.00	251020.00
12	26/5.14.1	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts, necessary phase separators, handle and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) 100Amps 25kA.	Each	30	4530.00	135900.00
13	31/5.43.2	Supply and Installation / Fixing / Provision of Pole box with HRC Fuse / MCB provision and suitable connector / terminal for 3 Ph / 1 Ph connections with Loop-In & Loop- Out terminals for 10 Sqmm / 25 Sqmm 3.5 C Al/Ar / Cu/ Ar Cable and branch out 2.5 Sqmm 2 core Al/Cu PVC Insulated cable, enclosed in a Thermoplastic, Polystyrene enclosure, which should be shock proof, safe, IP65(Weather Proof), rust proof, dust proof, water proof having Internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic, polyamide glands and/or grommets.260mmx210mmx116mm	Each	30	2054.00	61620.00
14	40/6.4.4	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 4 core 16 sqmm	Mtr	220	150.00	33000.00
15	41/ 6.5.6	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure 6 sqmm to 16 sqmm	Mtr	220	30.00	6600.00
16	26/ 5.13.4	Supply and fixing of 4 pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947.100 to 125Amps	Each	13	7200	93600.00
17	32/ 5.48	Supplying and fixing Microprocessor Based Astronomical timer Switch with using necessary bolts, nuts and washers.	Each	12	4030.00	48360.00

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18	27/ 5.17.3	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 50-63 Amps SP	Each	15	723.00	10845.00
19	145/300/41.07	1.1 kV, LT Aerial Bunched Cable, confirming to IS-14255: 1995 XLPE insulation Parameter shall be as below 1. Hot Set Test: a) Elongation under Load: 50% (Max) b) Permanent Elongation After Cooloing: 3% (Max) 2. Thermal Aging in oven: a) Tensile Strength: 16 N/mm² (Min) b) Elongation: 375% (Min) 3. Water Absorption Test a) Water absorbed: 0.5 mg/cm² (Max) 4. Carbon Black Content shall be ranging from 2% to 3% 1x25 + 1x16 Sqmm Street light 3x25 + (Insulated Messenger cum Neutral)	KM	2.515	147000.00	369705.00
20	224/270/34.04	Stringing of 1.1 kV grade Aerial Bunched 3 Core cable of XLPE insulation of size (3x95) (Phase Conductor) + (1x70) (Insulated Messenger Neutral) + (1x25) (Street Light Control)	KM	2.515	22469.00	56509.54
		Total				7104492.27
		GST 12% ITEM 10 to 18				79883.40
		Misleniuos				**624.33**
		Grand Total Rs	665695.00			**7185000.00**

Technically sanctioned for Rs. 71,85,000/-
Rs. In Words Seventy one lakhs Eighty five thousand Only
Under P-300 MAR-1 Street Light etc
Job Code No: Awaited as per Comm. Order Vide no. ಮುಂ.ಆ/ಪ.ಆಯು/93/2021-22, Dt. 06-07-2021
Registered as EIC No. 52 J 21-22 Subject to conditions contained in Enclosed Memo No. 52 J 21-22 Dt. 12/1/22
AE/JE. JE/TA 17/1/22 EIC.

CERTIFICATE

1. The Place was inspected and work is essential
2. The Provision made in the estimate is adequate and are necessary.
3. The Work comes in the BBMP limit and is legitimate charges on the Corporation Funds.
4. The rates in the Estimate is based on KPWD Electrical SR 2019-20,and approved rates
5. The Above work is not taken up in any previous Grants

Asst. Engineer (Elec)

(6) The AMC proposed for the street lights in the estimate are not under DLP

Asst. Exe. Engineer (Elec)
Sub-Division No.
Bruhat Bangalore Mahanagara Palike

EXECUTIVE ENGINEER (ELEC)
YELAHANKA DIVISION
BRUHAT BANGALORE MAHANAGARA PALIKE

Administrative Sanction for Rs. 71,85,000/-
Rupees Seventy one Lakhs Eighty Five Thousand Only
is accorded under head P0300 M and R to Street Lights Replacements of Burnt Bulbs etc. (Package)
Registered as EE No. 29/ 21.22 Subject to conditions contained in enclosed memo No. BSMP/Electl/Y22/135/29/21.22 Dt 09.12.2022

Executive Engineer